

# **E1973-99 Standard Practice for Collection of Surface Dust by Air Sampling Pump Vacuum Technique for Subsequent Lead Determination**

Copyright 2000 AMERICAN SOCIETY FOR TESTING AND MATERIALS, West Conshohocken, PA. All rights reserved.

## **1. Scope**

1.1 This practice covers the vacuum collection of surface dusts onto filters using portable air sampling pumps. Samples collected in this manner allow for the subsequent digestion and determination of lead content by using atomic spectrometric (or equivalent) methods. The primary intended application is sampling from soft surfaces.

1.2 This practice allows for the determination of lead on a loading basis (microgram of lead per area sampled). Lead may also be determined on a concentration basis (microgram of lead per gram of dust collected) where pre-weighed filters or filter cassettes are used.

1.3 Limitations-Due to a number of physical factors inherent in the vacuum sampling method, analytical results for vacuum dust samples are not likely to reflect the total dust contained within the sampling area prior to sample collection. This practice generally will have a collection bias toward smaller, less dense dust particles; however, the practice will generate leaded dust data that are consistent and comparable between operators performing vacuum collection using this practice at a variety of locales and sites.

1.4 The values stated in SI units are to be regarded as the standard. The values given in parentheses are for information only.

1.5 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

**Adopted by:**

**Developed by ASTM Subcommittee:** [E06.23](#)

## **Ordering Information**

Price: \$ 25.00 Printed Pages: 4

The information above is only a summary of the ASTM standard. Order the complete standard in three ways:



Immediate Download.\* Cost: Price as noted above. **CREDIT CARDS ONLY.**

[Notes about PDF Quality](#) | [Note about Acrobat](#)

\*This service requires use of Adobe Acrobat Software and PDF.

#### [PDF Delivery](#)



#### [Fax Delivery](#)

Delivery 5-10 minutes. Cost: Price as noted above, plus fax charge. **CREDIT CARDS ONLY.**

[Notes about Fax Quality](#)

#### Mail Delivery

Mail Delivery in 7-10 days. **CREDIT CARDS ONLY.** For Ship and Bill Option contact ASTM Customer Services (610) 832-9585, or by fax at (610) 832 - 9555.

[Mail Delivery - North America: \\$ 25.00](#)

[Mail Delivery - International: \\$ 27.50](#)

#### Subject Index

lead; surface dust; vacuum sampling

---

#### [Support Desk](#)